



DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION
NOTICE OF ACCEPTANCE (NOA)

Tormax Technologies, Inc.
12859 Wetmore Road
San Antonio, TX 78247

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER - Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Series 9200 Automatic Aluminum Sliding Glass Door w/ Reinforcements- L.M.I.

APPROVAL DOCUMENT: Drawing No. **12-172** (Former **#11-087**), "Series 9200 Impact" Sheets 1 through 4 of 4, prepared by EngCo. Inc., 08-27-2012, signed and sealed by Pedro De Figueiredo, P. E. bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

Limitations:

1. Laminated glass must be consist of Vanceva composite interlayer or (Oldcastle Storm glass) w/ PET core.

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and series and following statement: "Miami-Dade County Product Control Approved", noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA **revises** NOA # **11-0502.07** and consists of this page 1 and evidence pages E-1, as well as approval document mentioned above.

The submitted documentation was reviewed by **Ishaq I. Chanda, P.E.**



4
11/6/13

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections (Submitted under file # **11-0502.07**)
2. Drawing No. **12-172** (Former #**11-087**), "Series 9200 Impact" Sheets 1 through 4 of 4, prepared by EngCo. Inc., 08-27-2012, signed and sealed by Pedro De Figueiredo, P.E.

Note: This revision consists of FBC 2010 & Dwg No. changes notes only.

B. TESTS (Submitted under file # **11-0502.07/ #**06-0202.04**)**

1. Test reports on
 - 1) Air Infiltration Test, per FBC, TAS 202-94
 - 2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
 - 3) Water Resistant Test per FBC, TAS 202-94 (Not Performed)
 - 4) Large Missile Impact Test per FBC, TAS 201-94
 - 5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
 - 6) Forced Entry Test, per FBC 2411 3.2.1, TAS 202-94

along with marked-up drawings and installation diagram of an Automatic Entrance door, prepared by Hurricane Testing Laboratory, LLC, Test Report No **HTL 0368-0220-05** and **HTL 0368-0221-05**, dated 11/28/05, signed and sealed by Vinu J. Abraham, P.E.

C. CALCULATIONS

1. Anchor Calculations and structural analysis, complying with FBC-2004, prepared by Engco, Inc, dated 11/27/05, signed and sealed by Pedro De Figueiredo, P.E.
(Submitted under file # **11-0502.07** / #**06-0202.04**)
2. Glazing complies w/ ASTM E-1300-02 & -04.

D. QUALITY ASSURANCE

1. Miami Dade Department of Regulatory and Economic Resources (RER).

E. MATERIAL CERTIFICATIONS

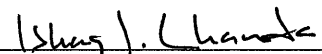
1. Notice of Acceptance No. **12-1009.02** (#**08-1118.07**) issued to Oldcastle Building Envelope Inc. (NJ) (Former Oldcastle Glass, Inc) for "Storm Glass used for lamination glass", expiring on 12/11/2013.
2. Notice of Acceptance No. **08-0520.08** issued to Solutia, Inc for "Vanceva Composites used for lamination glass", expiring on 12/11/2013.

F. STATEMENTS

1. Statement letter of conformance to FBC 2010 and letter of no financial interest, prepared by Engco, Inc, dated 11/27/2012, signed and sealed by Pedro De Figueiredo, P.E.
2. Statement letters of product conformance to FBC 2007, dated 04/29/11, signed and sealed by Pedro De Figueiredo, P.E. (Submitted under file # **11-0502.07**)
3. Lab compliance as part of the above referenced test report.

G. OTHER

1. This NOA **revises** NOA # **11-0502.07**, expiring on June 22, 2016.



Ishaq I. Chanda, P.E.

Product Control Examiner

NOA No. 12-1107.03

Expiration Date: June 22, 2016

Approval Date: January 24, 2013

INDEX:

SHEET 1 of 4 - GENERAL NOTES, DESIGN RATING AND DOOR COMPONENTS
SHEET 2 of 4 - TYPICAL DOOR ELEVATION, FRAMING ANCHORAGE
SHEET 3 of 4 - SECTION 1 DETAIL & BILL OF MATERIALS
SHEET 4 of 4 - SECTION 2 & 3 DETAILS & GLAZING DETAIL

GENERAL NOTES:

1- CODE: THIS PRODUCT HAS BEEN TESTED AND DESIGNED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE 2010 ED., INCLUDING HIGH VELOCITY HURRICANE ZONES (HVHZ).

2- DEFINITION: THIS PRODUCT IS AN ALUMINUM LARGE MISSILE IMPACT RESISTANT AUTOMATIC SLIDING GLASS DOOR. PRODUCT CAN BE USED AT ANY ELEVATION WITHOUT HURRICANE PROTECTION SHUTTERS.

3- POSTING: '9200 SERIES - LARGE MISSILE IMPACT
ALUMINUM AUTOMATIC SLIDING GLASS DOORS
TORMAX TECHNOLOGIES, INC.
SAN ANTONIO, TEXAS
DADE COUNTY PRODUCT CONTROL APPROVED'

4- LOADS: DESIGNED LOAD CALCULATED BASED ON THE ASCE 7-10 AND PROVIDED BY A PROFESSIONAL ARCHITECT OR ENGINEER FOR EACH SPECIFIC PROJECT. THE CALCULATED DESIGNED PRESSURE MUST NOT EXCEED THE ALLOWABLE PRESSURES HEREIN SPECIFIED. THE DESIGN PRESSURES, AS DETERMINED FROM ASCE 7-10, ARE TO BE MULTIPLE BY 0.6

5- MATERIAL: ALL ALUMINUM PARTS TO BE 6063-T5 ALLOY OR AS NOTED AND GLAZING TO BE LAMINATED GLASS AS PER SHEET 4 of 4 AS SPECIFIED ON THIS APPROVAL.

6- FASTENERS: ASSEMBLY SCREWS AND ANCHORS SHALL BE AS SPECIFIED IN THE CURRENT SET OF DRAWINGS. INSTALLATION AND LOADS AS PER THIS APPROVAL. ANCHOR SPACING AND LOADS MUST NOT EXCEED THE MAXIMUM LIMITS SPECIFIED BY THIS APPROVAL.

7- USE: IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR, ARCHITECT OR ENGINEER OF RECORD TO VERIFY THE FOLLOWING:

7.1- THE STABILITY OF THE STRUCTURE WHERE THE PRODUCT IS TO BE ATTACHED INSURING PROPER ANCHORAGE.

7.2- THE SITE SPECIFIC PROJECT CRITERIA, SUCH AS BUT NOT LIMITED TO, LOCAL CODE REQUIREMENTS, DESIGNED PRESSURES ETC.

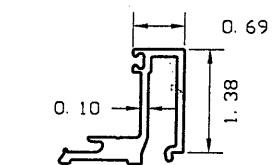
7.3- THAT THIS APPROVAL IS ADEQUATE TO THE SPECIFIC PROJECT.

8- 33 1/3% INCREASE IN ALLOWABLE LOADS HAVE NOT BEEN USED IN THE DESIGN OF THE ANCHORS FOR THIS PRODUCT APPROVAL, HOWEVER, WOOD SCREWS WITH 1.6 INCREASE FOR WIND LOAD DURATION HAVE BEEN USED.

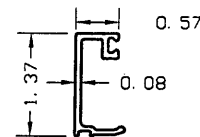
9- THIS SYSTEM COMPLIES W/ ASTM E1300-04

10- DISSIMILAR MATERIALS: MATERIALS, INCLUDING BUT NOT LIMITED TO STEEL, THAT COME IN CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF 2010 FLORIDA BUILDING CODE.

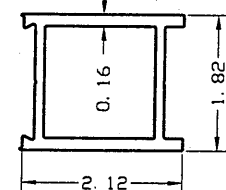
DOOR COMPONENTS



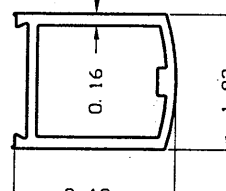
10- 141109 GLASS STOP GUTTER



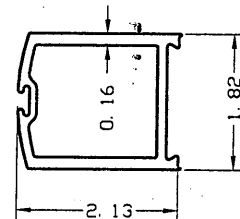
9- 141108 GLASS STOP FACE



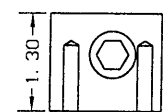
28 & 37- 140577 BACK STILE 'O' PANEL



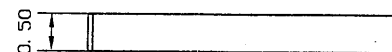
30 & 34 - 140795 PIVOT STILE 'SX' PANEL



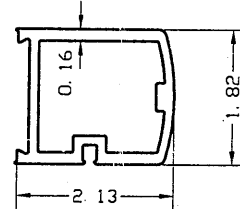
31- 140794 LEAD STILE 'SX' PANEL WEATHERED



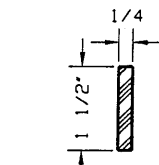
STILE BOLT SUPPORT ASSEM, PN 142248



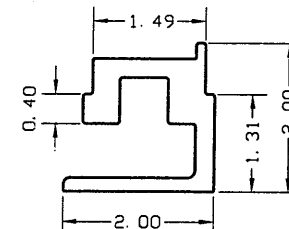
THRESHOLD INSERT, PN 142245 COLLED ROLLED STEEL



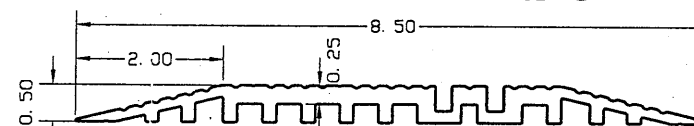
29 & 35 - 140952 LEAD STILE 'O' PANEL



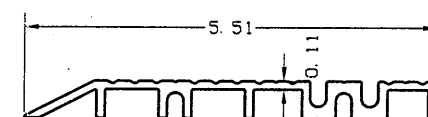
41- ALUMINUM REINFORCEMENT



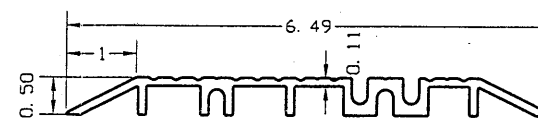
43- 140207 BOTTOM GUIDE RAIL 'O'



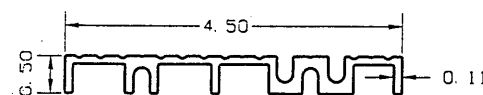
20- 140347.3 - 2 1/2 THRESHOLD DOUBLE BEVELED THRESHOLD



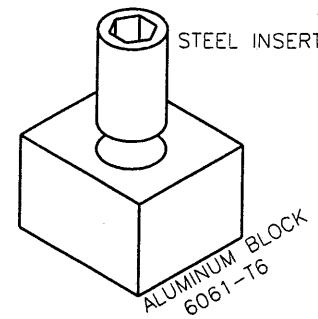
20- 140347.2 - THRESHOLD COMBINATION THRESHOLD



20- 140347.1 - 1 1/2 THRESHOLD DOUBLE BEVELED THRESHOLD

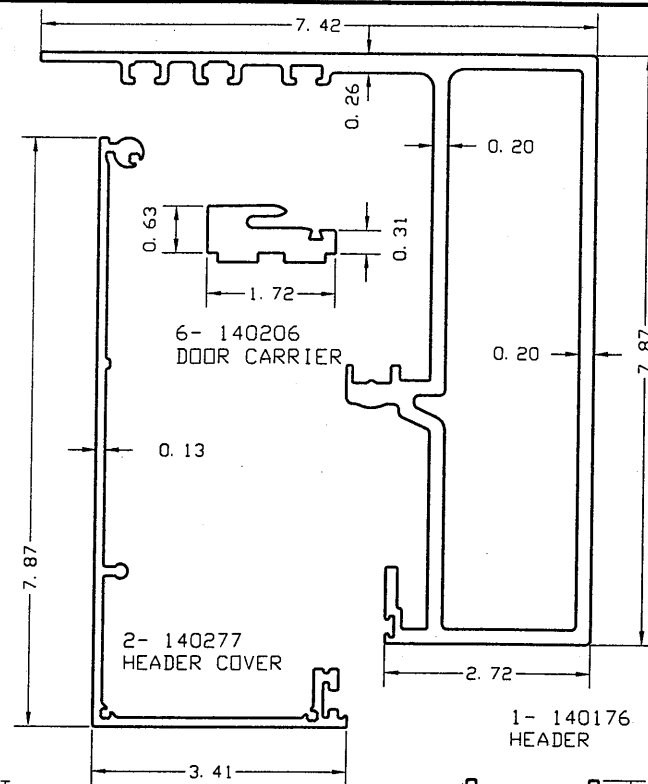


20- 140347 - THRESHOLD RECESSED



STEEL INSERT

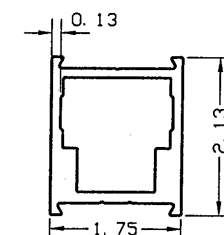
ALUMINUM BLOCK 6061-T6



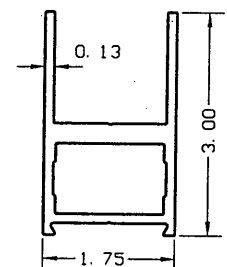
6- 140206 DOOR CARRIER

2- 140277 HEADER COVER

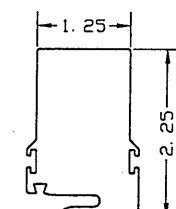
1- 140176 HEADER



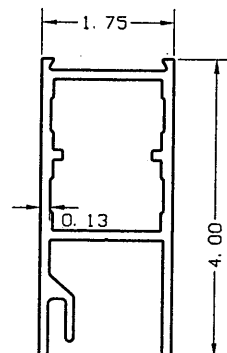
7- 140797 TOP RAIL 2 1/8" 'SX'



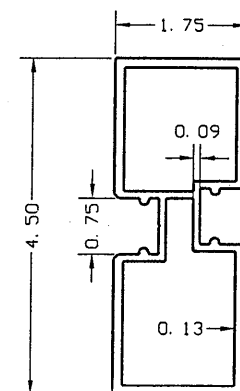
8 & 18 - 140798 TOP & BOTTOM RAIL 3" 'O'



4- 140205 TROLLEY CARRIER



25- 140799 BOTTOM RAIL 4" 'SX'



26- 141002 SNAP COVER

27- 141011 POCKET JAMB TUBE

MANUFACTURER:

★★★★★
TORMAX
TECHNOLOGIES, INC.

12859 WETMORE ROAD
SAN ANTONIO, TX 78247
PH: (210) 494-3551
FAX: (210) 494-5930

PRODUCT:

SERIES 9200 IMPACT
LARGE MISSILE IMPACT
AUTOMATIC SLIDING
GLASS DOOR

ENGINEERING:

EngCo Inc.
CA 8116
5595 Orange Dr. 201
Davie, FL 33314
ENGCO@GOLDFONTS.COM



DRAFTING:

PK DRAFTING & MORE

MIAMI-DADE BCCO:

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 12-1107-03
Expiration Date JUNE 22, 2016
Ismael I. Chaves
Miami Dade Product Control

Date: 08/27/12
Scale: NA
Design by: PPMF

Drawing Number
12-172

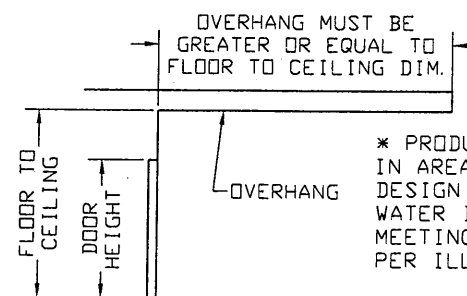
SHEET
1 of 4

DOOR ALLOWABLE
DESIGNED PRESSURES

+57*, -57 PSF

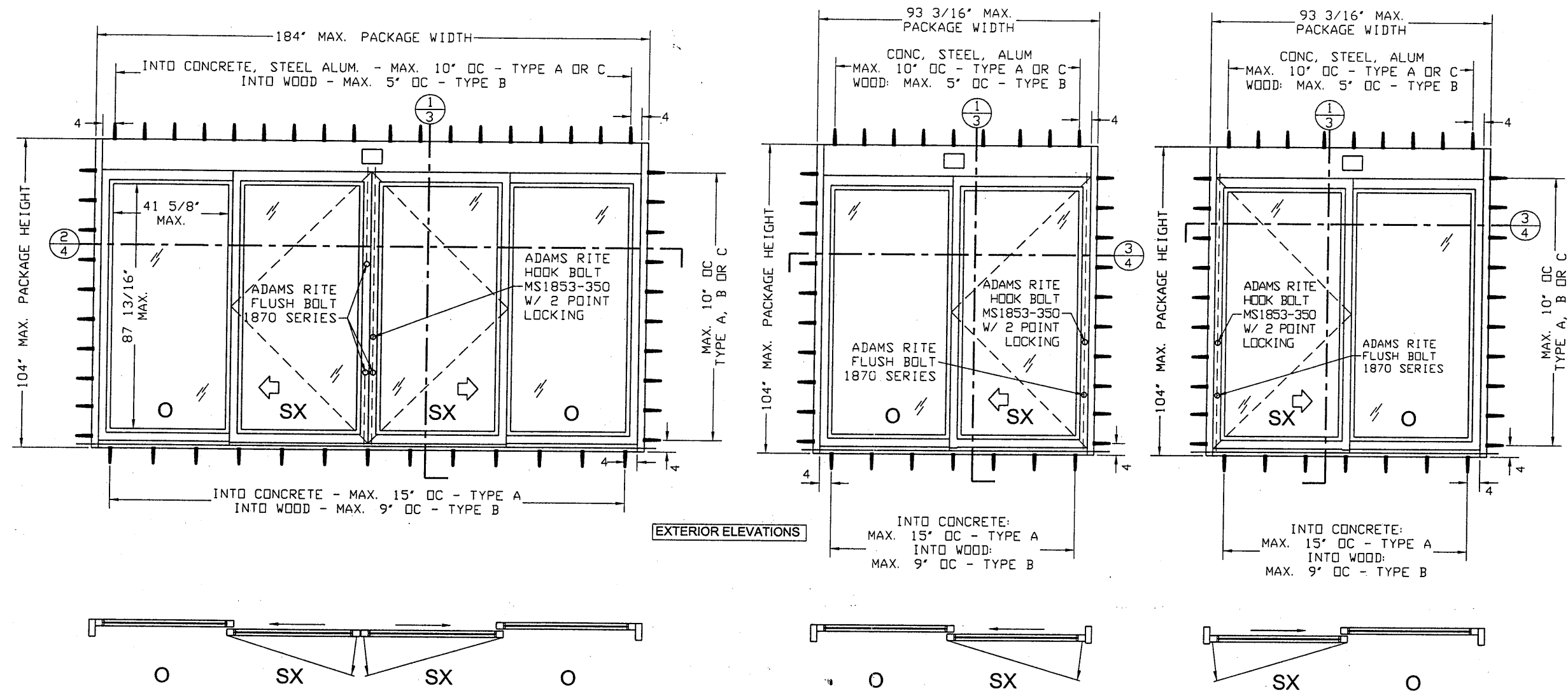
LARGE MISSILE IMPACT

ILLUSTRATION "Z"



* PRODUCT CAN BE USED ONLY IN AREAS WHERE THE DOOR DESIGN IS NOT LIMITED BY WATER INFILTRATION OR MEETING THE CRITERIA AS PER ILLUSTRATION Z.

TYPICAL ELEVATION AND ANCHORAGE SPACING



HARDWARE NOTE:
 LOCK AND FLUSH BOLT HAVE
 3/8\"/>

ANCHOR DATA

MK	DESCRIPTION	BASE MATERIAL	PENETRATION	EDGE DIST.
A	1/4" ITW TAPCON BY BUILDEX	3192 PSI CONCRETE	1 1/2" MIN.	2 1/2" MIN
B	1/4" ITW TAPCON BY BUILDEX	WOOD (SG>=.55)	1 1/2" MIN	3/4" MIN
C	1/4-14 HH SMS GRADE 5 GENERIC	1/8" THICK 6063-T5 ALUMINUM		3/4" MIN
	1/4-14 HH SMS GRADE 5 GENERIC	1/8" THICK A36 STEEL		3/4" MIN

ANCHOR NOTES:
 1- SEE SECTION DETAILS FOR ANCHOR SPACING.
 2- MINIMUM PENETRATION IS BEYOND WALL DRESSING.
 3- TYPICAL 2 ROWS OF ANCHORS FOR THRESHOLD INSTALLATION
 4- BASE MATERIAL DESIGNED BY OTHERS TO WITHSTAND IMPOSED LOAD.

PACKAGE HEIGHT INFORMATION

PACKAGE HEIGHT	MASONRY OPENING
8' -8" (104")	8' -8 1/4" (104 1/4")

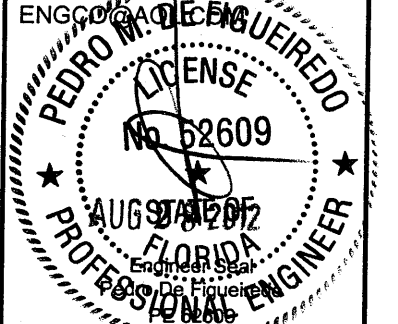
PACKAGE WIDTH INFORMATION

PKG WIDTH	NOMINAL CLEAR DOOR OPENING	SLIDING DOOR PANEL NOM. WIDTH	EMERGENCY BREAKOUT NOM. WIDTH
15' -4" (184")	77 7/8"	46 27/32"	86 3/4"
7' -9 3/16" (93 3/16")	38 7/8"	46 27/32"	43 3/8"

MANUFACTURER:
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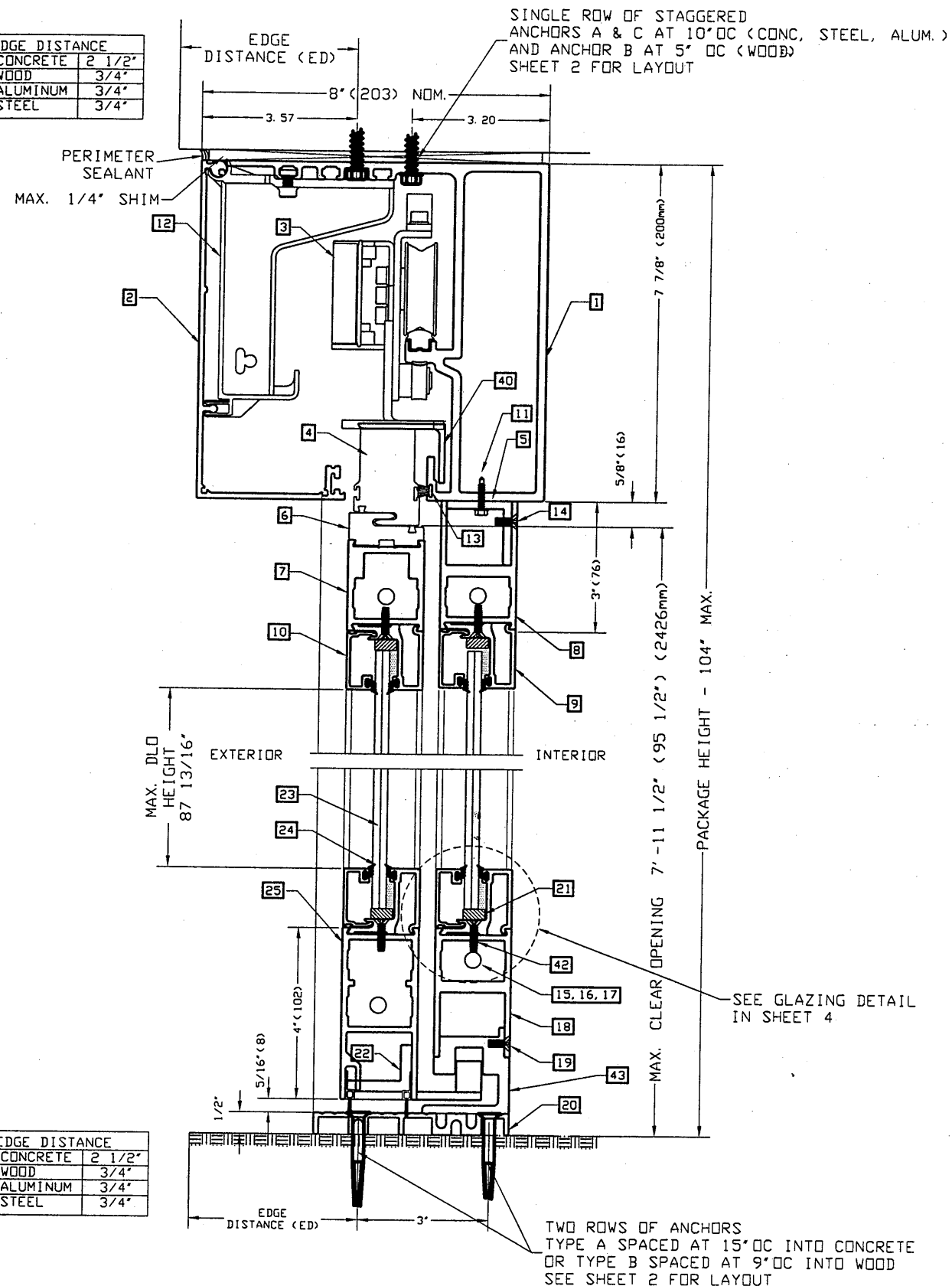
Date: 08/27/12
 Scale: NA
 Design by: PPMF

Drawing Number
12-172

SHEET
 2 of 4

TYPICAL VERTICAL SECTION 1/3

EDGE DISTANCE	
INTO CONCRETE	2 1/2"
INTO WOOD	3/4"
INTO ALUMINUM	3/4"
INTO STEEL	3/4"



EDGE DISTANCE	
INTO CONCRETE	2 1/2"
INTO WOOD	3/4"
INTO ALUMINUM	3/4"
INTO STEEL	3/4"

MATERIAL LIST

ITEM #	QTY	DESCRIPTION	PART NUMBER
1	1	HEADER	140176
2	1	COVER, HEADER	140277
3	4	TROLLEY ROLLER ASSEMBLY	110445
4	2	TROLLEY CARRIER	140205
5	2	ALUMINUM ANGLE, 1-1/25" X 1-1/2" X 3/16"	141125
6	2	DOOR CARRIER	140206
7	2	2-1/8" TOP RAIL, "SX"	140797
8	2	3" TOP RAIL, "O"	140798
9	16	1-3/8" GUTTER, GLASS STOP	141109
10	16	1-3/8" FACE, GLASS STOP	141108
11	14	#10 TEK SCREW	140270-01
12	4	BRACKET, HEADER COVER	140219
13	1	PILE-FIN WEATHERSEAL, HEADER	141148
14	14	10-32 X 1/2" FL HD PH MACH SCREW	140245-41
15	8	3/8" DIA ALL THREAD, THRU ROD	140167
16	16	RAIL CLIP, UNIVERSAL	140928
17	16	NUT, SERRATED FLANGE	14140421-08
18	2	3" BOTTOM RAIL, "O" PANEL	140798
19	14	10-32 X 1/2" FL HD PH MACH SCREW	140245-41
20	1	THRESHOLD, RECESSED	140347
21	AN	1/4" RUBBER SETTING BLOCK	
22	2	SLIDER, LEFT & RIGHT HAND	110236 & 110237
23	4	0.325" LAM. NOM STORMGLASS (HS)	
24	16	VINYL, GLASS STOPS	140132
25	2	4" BOTTOM RAIL, "SX"	140799
26	2	SNAP COVER, JAMB TUBES	141002
27	2	JAMB TUBE, POCKET	141011
28	1	BACK STILE, "O" PANEL	140577
29	1	LEAD STILE, "O" PANEL	140952
30	1	PIVOT STILE, "SX"	140795
31	1	LEAD STILE, WEATHERED, "SX" PANEL	140794
32	4	KEY OPERATED LOCK CYLINDER - ADAMS RITE	1870 SERIES
33	4	THUMBTURN LOCK CYLINDER - ADAMS RITE	MS1853
34	1	LEAD STILE, NON-WEATHERED, "SX"	140795
35	1	LEAD STILE, "O" PANEL	140952
36	1	PIVOT STILE, "SX"	140795
37	1	BACK STILE, "O" PANEL	140577
38	2	1/2" BRUSH, WEATHER SEAL	141001
39	1	PILE-FIN WEATHER STRIP, STILE	141147
40	2	DE-RAILER	141123
41	2	ALUMINUM BAR, 1/4" X 1-1/2"	142185
42	80	10-32 X 1/2" FL HD PH MACH SCREW	140245-41
43	2	BOTTOM GUIDE RAIL, "O"	140207
44	2	INTERLOCK ADAM RITE FLUSH BOLTS	1870
45	1	LOCK STILE ADAM RITE FLUSH BOLTS	1870
46	1	LOCK STILE ADAM RITE 2 POINTS	MS1853-350

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Design by: PPMF

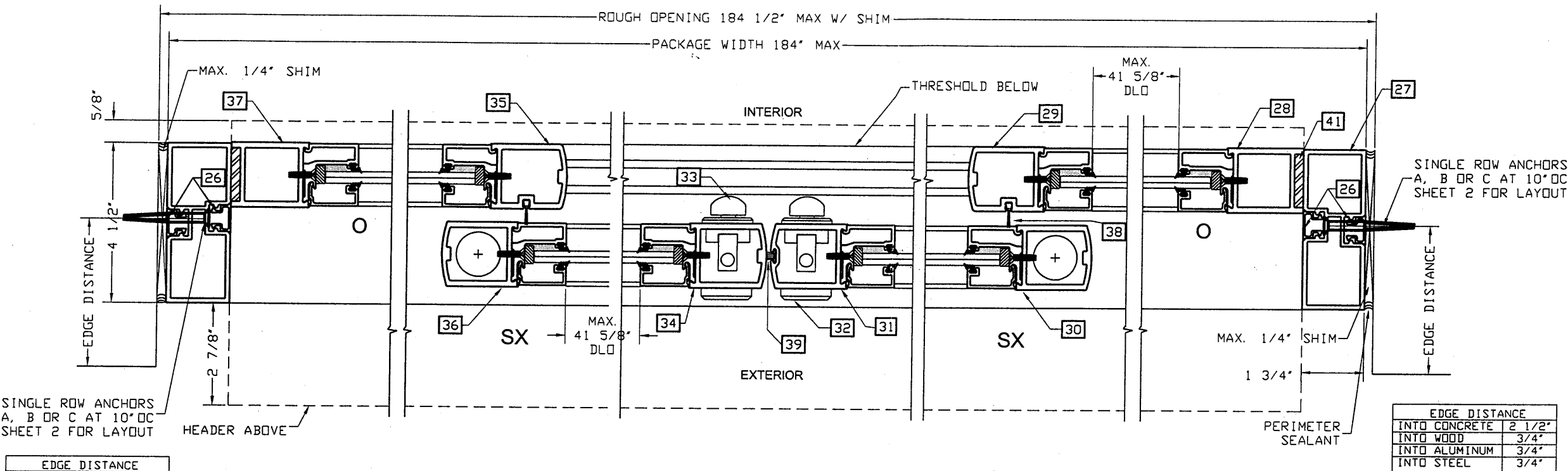
Drawing Number.

12-172

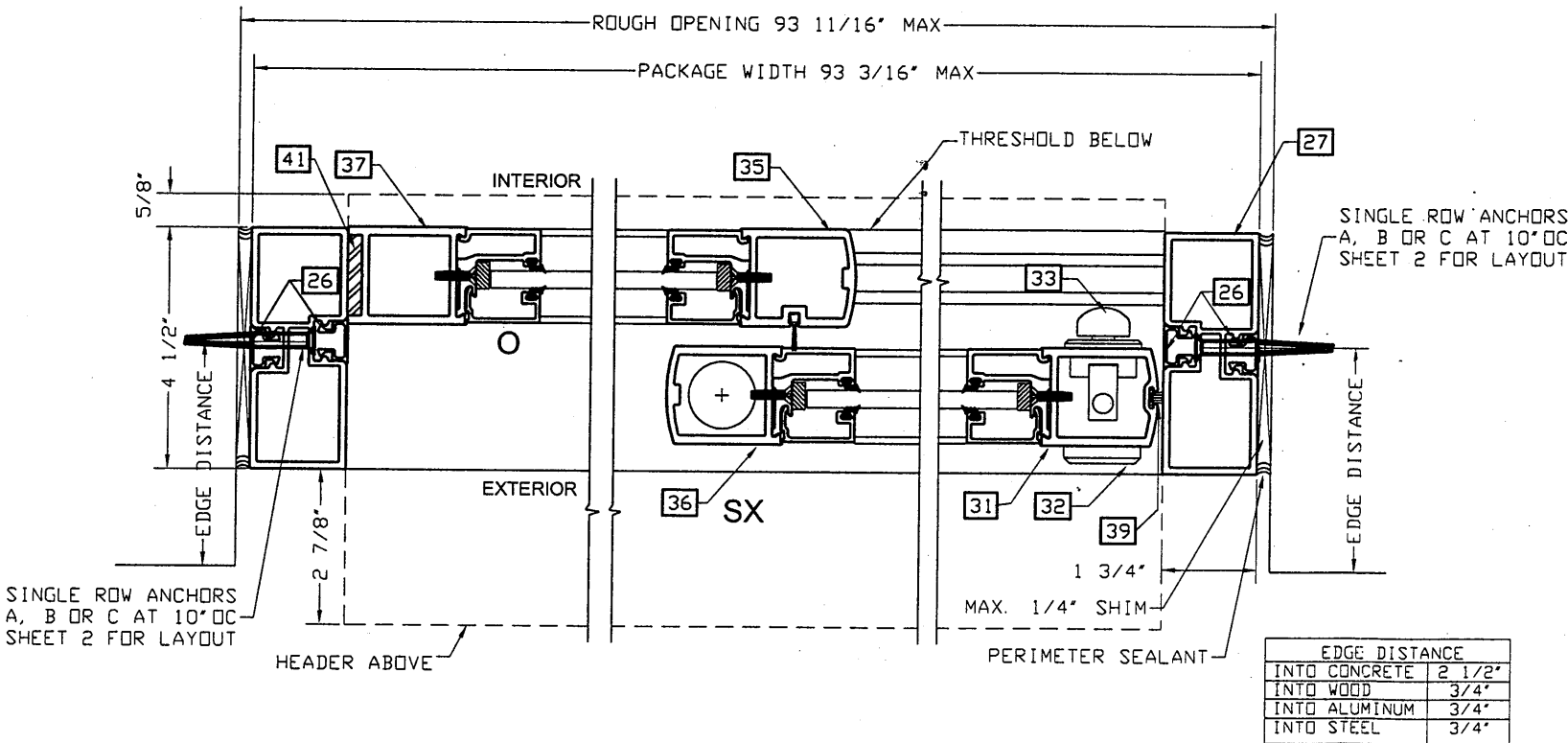
SHEET

3 of 4

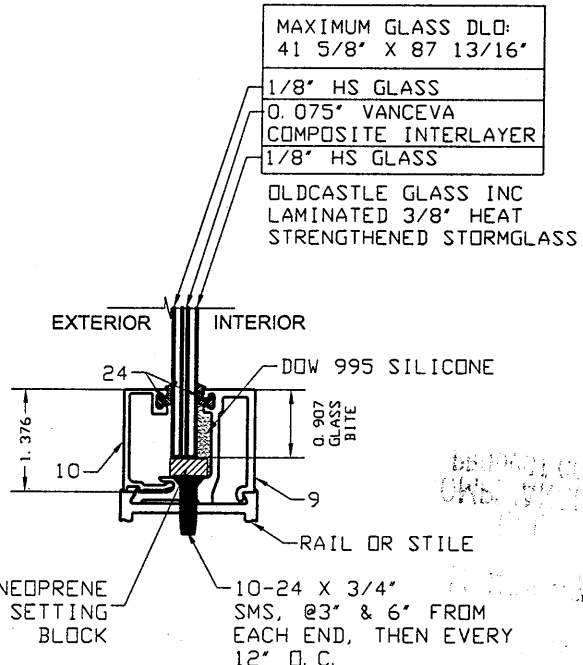
TYPICAL HORIZONTAL SECTION ②



TYPICAL HORIZONTAL SECTION ③



TYPICAL GLAZING DETAIL ENTIRE PERIMETER ALL LITES



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CA 8116
5595 Orange Dr. 201
Davie, FL 33314
ENGCO@AOL.COM

PEDRO M. DE FIGUEIREDO
LICENSE
No. 52809
STATE OF FLORIDA
PROFESSIONAL ENGINEER

DRAFTING:
PK DRAFTING & MORE

MIAMI-DADE BCCO:

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SHEET
4 of 4